

BRUHAT BANGALORE MAHANAGARA PALIKE



**Name of Work: - Improvements to drains and
Providing Asphaltting to roads at Havnoor Layout and
Surrounding in Ward No.14 Balagagunte**

Est Cost:99.60 Lakhs

Job Code: 014-21-000010

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಕಛೇರಿ
ಸಮುದಾಯ ಭವನ, 4ನೇ ಅಡ್ಡರಸ್ತೆ, ಜೈನ್ ದೇವನ್ಯಾಸ ರಸ್ತೆ, ಬಿ.ದಾಸರಹಳ್ಳಿ ಬೆಂಗಳೂರು-560057

~~~~~ ಅಂದಾಜು ಪಟ್ಟಿಯೊಂದಿಗಿನ ವರದಿ ~~~~~

ಕಾಮಗಾರಿಯ ಹೆಸರು: - Improvements to drains and Providing Asphaltting to roads at Havanoor Layout and Surrounding in ward no.14 Balagagunte.

ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ :- 2020-21 ನೇ ಸಾಲಿನ ಜಿಜಿಎಂಪಿ ಪಿ ಕೋಡ್-3702,

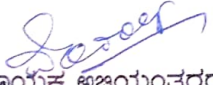
\*\*\*\*\*

ದಾಸರಹಳ್ಳಿ ಉಪವಿಭಾಗ ವಾರ್ಡ್ ನಂ.14ರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ 2020-21ನೇ ಸಾಲಿನ ಪಾಲಿಕೆ ಅಯವ್ಯಯದ ಪಿ ಕೋಡ್-3702 ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ ಅಡಿಯಲ್ಲಿ ಮೇಲಿನ ಕಾಮಗಾರಿಯ ಜಾಬ್‌ಕೋಡ್ ಸಂಖ್ಯೆ: 014-21-000010ರಲ್ಲಿ ರೂ.99.60 ಲಕ್ಷಗಳಿಗೆ ಅನುಮೋದನೆಗೊಂಡಿರುತ್ತದೆ.

ಜಿ.ಜಿ.ಎಂ.ಪಿ ವಾರ್ಡ್ ನಂ-14ರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಹವೇನೂರ್ ರಸ್ತೆ ಮತ್ತು ಸುತ್ತಮುತ್ತಲಿನ ರಸ್ತೆಗಳು ಹಾಳಾಗಿದ್ದು ವಾಹನ ಸವಾರರಿಗೆ ಮತ್ತು ಸಾರ್ವಜನಿಕರಿಗೆ ತುಂಬಾ ತೊಂದರೆಯಾಗಿರುವುದರಿಂದ ಸಾರ್ವಜನಿಕರು ಮುಖ್ಯ ಅಭಿಯಂತರರಿಗೆ ದೂರು ಸಲ್ಲಿಸಿರುತ್ತಾರೆ. ಆದ್ದರಿಂದ ಮುಖ್ಯ ಅಭಿಯಂತರರು ಕಾಮಗಾರಿಯನ್ನು ಹವೇನೂರ್ ರಸ್ತೆ ಮತ್ತು ಸುತ್ತಮುತ್ತಲಿನ ರಸ್ತೆಗಳನ್ನು ಸೂಚಿಸಿರುತ್ತಾರೆ. ಈ ಪ್ರದೇಶಗಳಲ್ಲಿ ರಸ್ತೆಗಳನ್ನು ಅಭಿವೃದ್ಧಿ ಪಡಿಸುವುದು ತುಂಬಾ ಅವಶ್ಯಕವಾಗಿರುತ್ತದೆ. 2020-21ನೇ ಸಾಲಿನ ಜಿಜಿಎಂಪಿ ಅಯವ್ಯಯದಲ್ಲಿ ಪಿ-3072ರಲ್ಲಿ ರೂ.99.60 ಲಕ್ಷಗಳ ಅನುದಾನವನ್ನು ಈ ಕಾಮಗಾರಿಗೆ ಮೀಸಲಿರಿಸಲಾಗಿರುತ್ತದೆ.

ಸದರಿ ಅನುದಾನಕ್ಕೆ 2018-19ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆಯ ದರಪಟ್ಟಿ ಮತ್ತು ಮಾರುಕಟ್ಟೆ ದರಗಳ ಅನುಸಾರ ಈ ಕೆಳಕಂಡ ಅಂಶಗಳೊಂದಿಗೆ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ರೂ.99.60ಲಕ್ಷಗಳಿಗೆ ತಯಾರಿಸಲಾಗಿದೆ.

1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoicing
2. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs
3. Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete
4. Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending
5. Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using
6. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller
7. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam
8. Providing and applying primer coat with bitumen emulsion on prepared surface of granular
9. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading
10. Cleaning the existing black topped surface with brooms, soft brushes and finally
11. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces
12. Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates
13. Loading and Unloading of Stone Boulder / Stone aggregates / Sand/ Kanker / Moorum
14. Cost of Haulage Excluding Loading and Unloading

  
ಸಹಾಯಕ ಅಭಿಯಂತರರು

ವಾರ್ಡ್ ಸಂಖ್ಯೆ. 14

  
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು  
ಜಿಜಿಎಂಪಿ, ಬಿ.ದಾಸರಹಳ್ಳಿ ಉಪ - ವಿಭಾಗ

# BRUHAT BANGALORE MAHANAGARA PALIKE

## DASARAHALLI ZONE

*me of Work: Improvements to drains & Providing Asphalting to roads at Havnoor Layout and Surrounding Ward No 14 Bagalagunte*

014-21-000010

Est. Cost Rs

99.60

Lakhs

Description of Item

Unit

No

L

B

D

Qty

Rate

Amount

KSRRB 300-1. KSRRB 300-1: Earthwork excavation by manual means for roads, drains & similar works in ordinary soil involving excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P.142/1.19.1 PWD SR 2018-19)

**For RCC drain**

Cum

2

68.00

1.10

1.00

149.60

6th cross

2

75.00

1.10

1.00

165.00

8th cross

2

105.00

1.10

1.00

231.00

4th Main Defence colony

2

66.00

1.10

1.00

145.20

7th cross Defence colony

1

100.00

1.10

1.00

110.00

near widia school compound

2

71.40

1.10

1.00

157.08

1st A cross Havnoor L/o

2

66.00

1.10

1.00

145.20

Hightension line road

**For Asphalt Road**

2

134.00

1.20

0.20

64.32

13th cross

2

134.00

1.20

0.20

64.32

13th cross

2

64.00

1.20

0.20

30.72

Hightension road

**For Desilting of drain**

2

88.00

0.45

0.40

31.68

13th cross

1293.98

137.80

178310.00

Basic Rate 130.00

Add Area Weightage 6% 7.80

**Total 137.80**

KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. Page No. 222/ Item No. 27.18/ PWD SR 2018-19

**For RCC drain**

2

68.00

1.10

0.15

22.44

6th cross

2

75.00

1.10

0.15

24.75

8th cross

2

105.00

1.10

0.15

34.65

4th Main Defence colony

2

66.00

1.10

0.15

21.78

7th cross Defence colony

1

100.00

1.10

0.15

16.50

near widia school compound

2

71.40

1.10

0.15

23.56

1st A cross Havnoor L/o

2

66.00

1.10

0.15

21.78

Hightension line road

**RAMP**

2

49.00

0.45

0.10

4.41

169.88

5680.59

965019.00

Basic Rate 5115.00

Deduct cement cost as per SR 18-19, P.No.V, SI No.123 1079.39

Note:  $(220 \times 490.63 / 100) = 1079.39$

Add cement cost as per Issue rate 1323.43

Note:  $(220 \times 300.78 / 50) = 1323.43$

Sub total 5359.05

Add Area Weightage 6% 321.54

| Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | Unit     | No                             | L      | B     | D    | Qty      | Rate     | Amount     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|--------------------------------|--------|-------|------|----------|----------|------------|
| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 5680.59  |                                |        |       |      |          |          |            |
| Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500,1700, 2200. including cost of materials, labour, HOM complete as per specifications (P.271/L.37.59) PWD - SR 2018-19) |  |          |                                |        |       |      |          |          |            |
| For RCC drain Raft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Cum      |                                |        |       |      |          |          |            |
| 6th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |          | 2                              | 68.00  | 1.10  | 0.15 | 22.44    |          |            |
| 8th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |          | 2                              | 75.00  | 1.10  | 0.15 | 24.75    |          |            |
| 4th Main Defence colony                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |          | 2                              | 105.00 | 1.10  | 0.15 | 34.65    |          |            |
| 7th cross Defence colony                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |          | 2                              | 66.00  | 1.10  | 0.15 | 21.78    |          |            |
| near widia school compound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |          | 1                              | 100.00 | 1.10  | 0.15 | 16.50    |          |            |
| 1st A cross Havnoor L/o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |          | 2                              | 71.40  | 1.10  | 0.15 | 23.56    |          |            |
| Hightension line road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |          | 2                              | 66.00  | 1.10  | 0.15 | 21.78    |          |            |
| For RCC drain Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |          |                                |        |       |      |          |          |            |
| 6th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |          | 4                              | 68.00  | 0.15  | 0.70 | 28.56    |          |            |
| 8th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |          | 4                              | 75.00  | 0.15  | 0.70 | 31.50    |          |            |
| 4th Main Defence colony                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |          | 4                              | 105.00 | 0.15  | 0.60 | 37.80    |          |            |
| 7th cross Defence colony                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |          | 4                              | 66.00  | 0.15  | 0.60 | 23.76    |          |            |
| near widia school compound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |          | 2                              | 100.00 | 0.15  | 0.60 | 18.00    |          |            |
| 1st A cross Havnoor L/o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |          | 4                              | 71.40  | 0.15  | 0.60 | 25.70    |          |            |
| Hightension line road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |          | 4                              | 66.00  | 0.15  | 0.60 | 23.76    |          |            |
| Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 6670.00  |                                |        |       |      | 354.19   | 7422.96  | 2629137.00 |
| Deduct cement cost as per SR 18-19,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 1471.89  | Note: (300*490.63/100)=1471.89 |        |       |      |          |          |            |
| Add cement cost as per Issue rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 1804.68  | Note: (300*300.78/50)=1804.68  |        |       |      |          |          |            |
| Sub total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 7002.79  |                                |        |       |      |          |          |            |
| Add Area Weightage 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 420.17   |                                |        |       |      |          |          |            |
| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 7422.96  |                                |        |       |      |          |          |            |
| 4 KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specification No KBS 4.6.3 TMT bars Fe-500 (P.229/L.28.8.2) PWD - SR 2018-19)                                                           |  |          |                                |        |       |      |          |          |            |
| Consider 65 kg/Cum for Rcc drain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | tonne    | 1                              | 354.19 | 65.00 |      | 23022.35 |          |            |
| Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 67154.00 |                                |        |       |      | 23.02    | 71183.24 | 1638805.00 |
| Add Area Weightage 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 4029.24  |                                |        |       |      |          |          |            |
| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 71183.24 |                                |        |       |      |          |          |            |
| 5 Providing and fixing precast RCC cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortar including from work, lift charges curing and concrete finished surface on both side etc., and complete as per the direction of Engineer in Charge (DATA RATE)                                                                                                                                                                               |  |          |                                |        |       |      |          |          |            |

| Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unit           | No | L      | B    | D    | Qty           | Rate           | Amount            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----|--------|------|------|---------------|----------------|-------------------|
| <b>For RCC drain</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Sqm</b>     |    |        |      |      |               |                |                   |
| 6th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 2  | 68.00  | 0.90 |      | 122.40        |                |                   |
| 8th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 2  | 75.00  | 0.90 |      | 135.00        |                |                   |
| 4th Main Defence colony                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                | 2  | 105.00 | 0.90 |      | 189.00        |                |                   |
| 7th cross Defence colony                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                | 2  | 66.00  | 0.90 |      | 118.80        |                |                   |
| near widia school compound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | 1  | 100.00 | 0.90 |      | 90.00         |                |                   |
| 1st A cross Havnoor L/o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                | 2  | 71.40  | 0.90 |      | 128.52        |                |                   |
| Hightension line road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                | 2  | 66.00  | 0.90 |      | 118.80        |                |                   |
| <b>Missing Slabs</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | 1  | 27.00  | 0.90 |      | 24.30         |                |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |    |        |      |      | <b>926.64</b> | <b>1867.00</b> | <b>1730037.00</b> |
| <b>DATA RATE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>2337.00</b> |    |        |      |      |               |                |                   |
| KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3                                                                                                                                                                                                                                                  |                |    |        |      |      |               |                |                   |
| P-147, It No 19.64, PWD SR 18-19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |    |        |      |      |               |                |                   |
| <b>For Asphalt Road</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |    |        |      |      |               |                |                   |
| Hightension road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | 2  | 30.00  | 0.80 |      | 48.00         |                |                   |
| 13th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sqm            | 2  | 134.00 | 1.20 |      | 321.60        |                |                   |
| 13th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | 2  | 134.00 | 1.20 |      | 321.60        |                |                   |
| Main road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 2  | 64.00  | 0.90 |      | 115.20        |                |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |    |        |      |      | <b>806.00</b> | <b>6.36</b>    | <b>5126.00</b>    |
| Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6.00           |    |        |      |      |               |                |                   |
| Add Area Weightage 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.36           |    |        |      |      |               |                |                   |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>6.36</b>    |    |        |      |      |               |                |                   |
| KSRRB M400-17, Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18, PWD SR 2018-19) |                |    |        |      |      |               |                |                   |
| <b>For Asphalt Road</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Cum</b>     |    |        |      |      |               |                |                   |
| Hightension road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | 2  | 30.00  | 0.80 | 0.20 | 9.60          |                |                   |
| 13th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | 2  | 134.00 | 1.20 | 0.20 | 64.32         |                |                   |
| 13th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | 2  | 134.00 | 1.20 | 0.20 | 64.32         |                |                   |
| Main road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 2  | 64.00  | 0.90 | 0.20 | 23.04         |                |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |    |        |      |      | <b>161.20</b> | <b>2001.28</b> | <b>322606.00</b>  |
| Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1888.00        |    |        |      |      |               |                |                   |
| Add Area Weightage 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 113.28         |    |        |      |      |               |                |                   |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>2001.28</b> |    |        |      |      |               |                |                   |
| KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (P.No.161I.No.21.6, PWD SR 2018-19)                                                                                                                                                                                                              |                |    |        |      |      |               |                |                   |
| <b>For Asphalt Road</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Sqm</b>     |    |        |      |      |               |                |                   |
| Hightension road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | 2  | 30.00  | 0.80 |      | 48.00         |                |                   |
| 13th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | 2  | 134.00 | 1.20 |      | 321.60        |                |                   |

| Description of Item   | Unit         | No | L      | B    | H | Qty    | Rate  | Amount   |
|-----------------------|--------------|----|--------|------|---|--------|-------|----------|
| 13th cross            |              | 2  | 134.00 | 1.20 |   | 268.00 |       |          |
| Main road             |              | 2  | 64.00  | 0.90 |   | 128.00 |       |          |
| Basic Rate            | 12.00        |    |        |      |   | 806.00 | 33.92 | 27340.00 |
| Add Area Weightage 6% | 1.92         |    |        |      |   |        |       |          |
| <b>Total</b>          | <b>33.92</b> |    |        |      |   |        |       |          |

KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507 using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.160 L.No.21.17.6) PWD SR 2018-19

|                         |                |   |     |     |      |              |                |                  |
|-------------------------|----------------|---|-----|-----|------|--------------|----------------|------------------|
| <b>For Asphalt Road</b> | Cum            |   |     |     |      |              |                |                  |
| Hightension road        |                | 2 | 30  | 0.8 | 0.05 | 2.40         |                |                  |
| 13th cross              |                | 2 | 134 | 1.2 | 0.05 | 16.08        |                |                  |
| 13th cross              |                | 2 | 134 | 1.2 | 0.05 | 16.08        |                |                  |
| Main road               |                | 2 | 64  | 0.9 | 0.05 | 5.76         |                |                  |
|                         |                |   |     |     |      | <b>40.30</b> | <b>7292.80</b> | <b>293900.00</b> |
| Basic Rate              | 6880.00        |   |     |     |      |              |                |                  |
| Add Area Weightage 6%   | 412.80         |   |     |     |      |              |                |                  |
| <b>Total</b>            | <b>7292.80</b> |   |     |     |      |              |                |                  |

KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (P.No.161 L.No.21.2, PWD SR 2018-19)

|                         |             |   |        |      |  |                |             |                 |
|-------------------------|-------------|---|--------|------|--|----------------|-------------|-----------------|
| <b>For Asphalt Road</b> | Sqm         |   |        |      |  |                |             |                 |
| Hightension road        |             | 1 | 30.00  | 3.90 |  | 117.00         |             |                 |
| 13th cross              |             | 1 | 134.00 | 4.60 |  | 616.40         |             |                 |
| 13th cross              |             | 1 | 134.00 | 5.00 |  | 670.00         |             |                 |
| Main road               |             | 1 | 64.00  | 8.00 |  | 512.00         |             |                 |
|                         |             |   |        |      |  | <b>1915.00</b> | <b>5.30</b> | <b>10150.00</b> |
| Basic Rate              | 5.00        |   |        |      |  |                |             |                 |
| Add Area Weightage 6%   | 0.30        |   |        |      |  |                |             |                 |
| <b>Total</b>            | <b>5.30</b> |   |        |      |  |                |             |                 |

KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5

(P.No.161, It.21.7, PWD SR 2018-19)

|                         |       |   |        |      |  |                |              |                 |
|-------------------------|-------|---|--------|------|--|----------------|--------------|-----------------|
| <b>For Asphalt Road</b> |       |   |        |      |  |                |              |                 |
| Hightension road        |       | 1 | 30.00  | 3.90 |  | 117.00         |              |                 |
| 13th cross              |       | 1 | 134.00 | 4.60 |  | 616.40         |              |                 |
| 13th cross              |       | 1 | 134.00 | 5.00 |  | 670.00         |              |                 |
| Main road               |       | 1 | 64.00  | 8.00 |  | 512.00         |              |                 |
|                         |       |   |        |      |  | <b>1915.00</b> | <b>12.72</b> | <b>24359.00</b> |
| Basic Rate              | 12.00 |   |        |      |  |                |              |                 |

Are 6%  $\frac{0.72}{12.72}$

| Sl No | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No      | Length (m) | Width (m) | Depth (m) | Quantity | Unit | Rate    | Amount     |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|-----------|-----------|----------|------|---------|------------|
|       | Area Weightage 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.72    |            |           |           |          |      |         |            |
|       | Grand Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12.72   |            |           |           |          |      |         |            |
| 12    | <p>Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified gradings, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-55-2015, using - do - using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (30/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PWD BCSR 2018-19)</p> |         |            |           |           |          |      |         |            |
|       | For Asphalt Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |            |           |           |          |      |         |            |
|       | Haveover Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |            |           |           |          |      |         |            |
|       | 1st B Cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1       | 30.00      | 3.80      | 0.04      | 4.56     |      |         |            |
|       | 2nd B Cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1       | 41.00      | 3.00      | 0.04      | 4.92     |      |         |            |
|       | 3rd B Cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1       | 56.00      | 3.10      | 0.04      | 6.94     |      |         |            |
|       | 4th Cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1       | 134.00     | 4.30      | 0.04      | 23.05    |      |         |            |
|       | 5th Cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1       | 134.00     | 4.30      | 0.04      | 23.05    |      |         |            |
|       | 3rd Main Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1       | 64.00      | 5.50      | 0.04      | 14.08    |      |         |            |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |            |           |           | 76.60    | Cum  | 8544.66 | 654520.96  |
|       | As per Issue rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8061.00 |            |           |           |          |      |         |            |
|       | Area Weightage 6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 483.06  |            |           |           |          |      |         |            |
|       | Grand Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8544.66 |            |           |           |          |      |         |            |
| 13    | <p>KSRRB M100-1 Loading and Unloading of Stone Boulder : Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 (P.No.136 &amp; I.No.17.1 PWD 18-19)</p>                                                                                                                                                                                                                                                                                                                                                                                                                        |         |            |           |           |          |      |         |            |
|       | Vide Item No.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |            |           |           | 1293.98  | Cum  | 57.00   | 73756.86   |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 57.00   |            |           |           |          |      |         |            |
| 14    | <p>KSRRB M100-4.1, Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road (P.No.136 &amp; I.No.17.4 PWD 18-19)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |            |           |           |          |      |         |            |
|       | Vide Item No.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |            |           |           | 1293.98  | t.km | 25.60   | 33125.89   |
|       | lead for earth 10 km(2*1.28*10=25.60)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 25.60   |            |           |           |          |      |         |            |
|       | Total Construction Cost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |            |           |           |          |      |         | 8586166.87 |
|       | GST Charges 12%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |            |           |           |          |      |         | 1030340.02 |
|       | Tender Premium 4%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |            |           |           |          |      |         | 343446.67  |
|       | Sub Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |            |           |           |          |      |         | 9959953.57 |
|       | Utility Shifting, Miscellaneous and Rounding off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |            |           |           |          |      |         | 46.43      |
|       | GRAND TOTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |            |           |           |          |      |         | 9960000.00 |
|       | Rupees Ninety Nine Lakh(s) Sixty Thousand Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |            |           |           |          |      |         |            |

#### Certificate

- 1) This Work Comes Within BBMP Limits.
- 2) Certified that personally Inspected the Work Spot.
- 3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19 & issued rate Dated From 01/01/2021
- 4) Estimate is Prepared Making Use of essential item of work as per site conditions in safest way of Execution in most economical way
- 5) This work is not include in any other program of work.

Assistant Engineer  
Ward No.14

Asst. Executive Engineer  
T Dasarahalli Sub division

Executive Engineer  
Dasarahalli Division

pro

ADMINISTRATIVE SANCTION

Ninety Nine lakh sixty  
Thousand only

Special development work

193/2013

KE/00/AS-193/2013 Dt. 02/03/21

(DASAF)

Technically Sanctioned for Rs. 99.60 lakhs

Rs. In Words Ninety Nine lakh sixty  
Thousand

Under P-3702

Job Code No. 014-21-000010

Registered as SE No. 122 / 21-22

to conditions contained in Enclosed Memo

No. SE/02/JS / 122 / 21-22 Dt. 22-06-21

AE/JE TA SE(D)

Technically Sanctioned for Rs. 99.60 lakhs

Rs. In words Ninety Nine lakh sixty  
Thousand only

Under

Job Code No.

Registered as CE No. / Subject

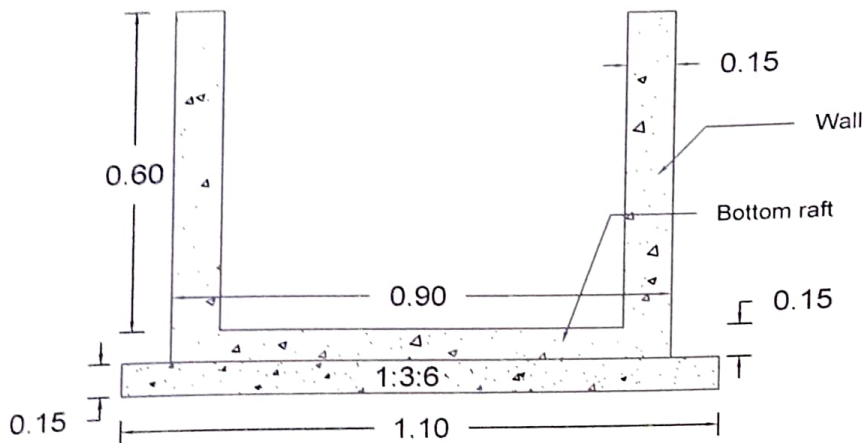
to conditions contained in Enclosed Memo

No. / Dt.

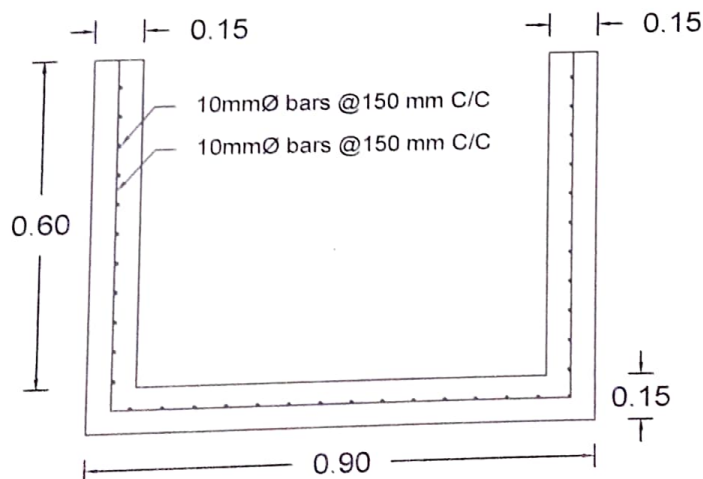
AE/JE Executive Engineer

• **Name of Work :-** Improvements of Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in ward no14 Bagalagunte.

## RCC DRAIN



Cross Section @ 3<sup>rd</sup> Cross



Assistant Engineer  
Ward No.14

Assistant Executive Engineer  
T-Dasarahalli Sub division

All Dimensions are in Meters

**Name of Work :-** Improvements of Drains and Providing Asphaltting to Roads at Havanoor  
Layout and Surroundings in ward no14 Bagalagunte.



*[Signature]*  
Assistant Engineer  
Ward No.14

*[Signature]*  
Assistant ~~Executive~~ Engineer  
T-Dasarahalli Sub division

All Dimensions are in Meter